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=> d his
     (FILE 'HOME' ENTERED AT 15:23:27 ON 12 SEP 2006)
     FILE 'BIOSIS, MEDLINE, CAPLUS, WPIDS, USPATFULL' ENTERED AT 15:24:27 ON
     12 SEP 2006
L1
              1 S HCV AND BETA D 2 (2A) FLUORONUCLEOSIDE
L2
             14 S HEPATITIS AND FLUORONUCLEOSIDE
L3
             13 S L2 NOT L1
L4
             13 DUP REM L3 (0 DUPLICATES REMOVED)
=> s 14 and 2(2a) fluoronucleoside
1.5
             7 L4 AND 2(2A) FLUORONUCLEOSIDE
=> d 15 bib abs 1-7
L5
     ANSWER 1 OF 7 USPATFULL on STN
AN
       2003:120823 USPATFULL
TI
       Anti-HCV nucleoside derivatives
IN
       Devos, Rene Robert, Welwyn Garden City, UNITED KINGDOM
       Hobbs, Christopher John, Hertford, UNITED KINGDOM
       Jiang, Wen-Rong, Welwyn Garden City, UNITED KINGDOM
       Martin, Joseph Armstrong, Harpenden, UNITED KINGDOM
       Merrett, John Herbert, Baldock, UNITED KINGDOM
       Najera, Isabel, St. Albans, UNITED KINGDOM
PΤ
       US 2003083307
                          A1
                               20030501
       US 6660721
                          B2
                               20031209
       US 2002-106970
AΙ
                          A1
                               20020326 (10)
PRAI
       GB 2001-12617
                           20010523
DT
       Utility
FS
       APPLICATION
LREP
       HOFFMANN-LA ROCHE INC., PATENT LAW DEPARTMENT, 340 KINGSLAND STREET,
       NUTLEY, NJ, 07110
CLMN
       Number of Claims: 5
ECL
       Exemplary Claim: 1
DRWN
       No Drawings
LN.CNT 541
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
       The present invention comprises nucleoside derivatives for use in the
AB
       treatment or prophylaxis of hepatitis C virus infections. In
       particular, the present invention discloses the novel use of known
       2'-deoxy-2'-fluoro nucleoside derivatives as inhibitors of
       hepatitis C virus (HCV) RNA replication and pharmaceutical
       compositions of such compounds. The compounds of this invention have
       potential use as therapeutic agents for the treatment of HCV infections.
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 2 OF 7 USPATFULL on STN
L5
AN
       2002:344441 USPATFULL
TI
       2'-fluoronucleosides
TN
       Schinazi, Raymond F., Decatur, GA, UNITED STATES
       Liotta, Dennis C., McDonough, GA, UNITED STATES
       Chu, Chung K., Athens, GA, UNITED STATES
       McAtee, J. Jeffrey, Mobile, AL, UNITED STATES
       Shi, Junxing, Decatur, GA, UNITED STATES
       Choi, Yongseok, Athens, GA, UNITED STATES
       Lee, Kyeong, Athens, GA, UNITED STATES
       Hong, Joon H., Athens, GA, UNITED STATES
PΙ
       US 2002198171
                          A1
                               20021226
       US 6911424
                          B2
                               20050628
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ΑI

US 2002-61128

**A**1

20020130 (10)

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RLI
       Continuation of Ser. No. US 1999-257130, filed on 25 Feb 1999, GRANTED,
       Pat. No. US 6348587
       US 1998-75893P
                           19980225 (60)
PRAI
       US 1998-80569P
                           19980403 (60)
DТ
       Utility
FS
       APPLICATION
LREP
       KING & SPALDING, 191 PEACHTREE STREET, N.E., ATLANTA, GA, 30303-1763
CLMN
       Number of Claims: 56
ECL
       Exemplary Claim: 1
DRWN
       No Drawings
LN.CNT 3626
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
       A class of 2'-fluoro-nucleoside compounds are disclosed which are useful
       in the treatment of hepatitis B infection, hepatitis
       C infection, HIV and abnormal cellular proliferation, including tumors
       and cancer. The compounds have the general formulae:
       wherein
       Base is a purine or pyrimidine base;
       R.sup.1 is OH, H, OR.sup.3, N.sub.3, CN, halogen, including F, or
       CF.sub.3, lower alkyl, amino, loweralkylamino, di(lower)alkylamino, or
       alkoxy, and base refers to a purine or pyrimidine base;
       R.sup.2 is H, phosphate, including monophosphate, diphosphate,
       triphosphate, or a stabilized phosphate prodrug; acyl, or other
       pharmaceutically acceptable leaving group which when administered in
       vivo, is capable of providing a compound wherein R.sup.2 is H or
       phosphate; sulfonate ester including alkyl or arylalkyl sulfonyl
       including methanesulfonyl, benzyl, wherein the phenyl group is
       optionally substituted with one or more substituents as described in the
       definition of aryl given above, a lipid, an amino acid, peptide, or
       cholesterol; and
       R.sup.3 is acyl, alkyl, phosphate, or other pharmaceutically acceptable
       leaving group which when administered in vivo, is capable of being
       cleaved to the parent compound, or a pharmaceutically acceptable salt
       thereof.
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L5
     ANSWER 3 OF 7 USPATFULL on STN
ΑN
       2002:34547 USPATFULL
TI
       2'-Fluoronucleosides
IN
       Schinazi, Raymond F., Decatur, GA, United States
       Liotta, Dennis C., McDonough, GA, United States
       Chu, Chung K., Athens, GA, United States
       McAtee, J. Jeffrey, Atlanta, GA, United States
       Shi, Junxing, Decatur, GA, United States
       Choi, Yongseok, Athens, GA, United States
       Lee, Kyeong, Athens, GA, United States
       Hong, Joon H., Athens, GA, United States
PA
       Emory University, Atlanta, GA, United States (U.S. corporation)
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University of Georgia Research Foundation, Inc., Athens, GA, United States (U.S. corporation) ΡI US 6348587 20020219 B1 US 1999-257130 19990225 (9) ΑI US 1998-80569P PRAI 19980403 (60) US 1998-75893P 19980225 (60) DTUtility FS GRANTED EXNAM Primary Examiner: Riley, Jezia Knowles, Esq., Sherry M., Young, Josephine, King & Spalding LREP

CLMN Number of Claims: 56 ECL Exemplary Claim: 1

DRWN 0 Drawing Figure(s); 0 Drawing Page(s)

LN.CNT 3564

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A class of 2'-fluoro-nucleoside compounds are disclosed which are useful in the treatment of hepatitis B infection, hepatitis C infection, HIV and abnormal cellular proliferation, including tumors and cancer. The compounds have the general formulae: ##STR1##

#### wherein

Base is a purine or pyrimidine base; R.sup.1 is OH, H, OR.sup.3, N.sub.3, CN, halogen, including F, or CF.sub.3, lower alkyl, amino, loweralkylamino, di(lower)alkylamino, or alkoxy, and base refers to a purine or pyrimidine base;

R.sup.2 is H, phosphate, including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug; acyl, or other pharmaceutically acceptable leaving group which when administered in vivo, is capable of providing a compound wherein R.sup.2 is H or phosphate; sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl, benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given above, a lipid, an amino acid, peptide, or cholesterol; and

R.sup.3 is acyl, alkyl, phosphate, or other pharmaceutically acceptable leaving group which when administered in vivo, is capable of being cleaved to the parent compound, or a pharmaceutically acceptable salt thereof.

# CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 4 OF 7 USPATFULL on STN

AN 2001:194415 USPATFULL

TI Therapeutic azide compounds

IN Chu, Chung K., Athens, GA, United States
Kotra, Lakshmi P., Detroit, MI, United States
Manouilov, Konstantine K., Omaha, NE, United States
Du, Jinfa, Irvine, CA, United States
Schinazi, Raymond, Decatur, GA, United States

PA University of Georgia Research Foundation, Inc. (U.S. corporation)

PI US 2001036930 A1 20011101 US 6949521 B2 20050927

AI US 2001-849870 A1 20010504 (9)

RLI Division of Ser. No. US 1998-33996, filed on 3 Mar 1998, GRANTED, Pat. No. US 6271212 Continuation of Ser. No. WO 1996-US14494, filed on 6 Sep 1996, UNKNOWN

PRAI US 1995-3383P 19950907 (60)

DT Utility

FS APPLICATION

LREP Henry D. Coleman, Coleman Sudol Sapone, PC, 14th Floor, 708 Third Avenue, New York, NY, 10017

CLMN Number of Claims: 23 ECL Exemplary Claim: 1 DRWN 7 Drawing Page(s)

LN.CNT 1760

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Pharmaceutical prodrug compositions are provided comprising azide derivatives of drugs which are capable of being converted to the drug in vivo. Azide derivatives of drugs having amine, ketone and hydroxy substituents are converted in vivo to the corresponding drugs, increasing the half-life of the drugs. In addition azide prodrugs are

often better able to penetrate the blood-brain barrier than the corresponding drugs. Especially useful are azide derivatives of cordycepin, 2'-F-ara-ddI, AraA, acyclovir, penciclovir and related drugs. Useful azide prodrugs are azide derivatives of therapeutic alicyclic amines, ketones, and hydroxy-substituted compounds, including aralkyl, heterocyclic aralkyl, and cyclic aliphatic compounds, where the amine or oxygen moiety is on the ring, or where the amine or oxygen moiety is on an aliphatic side chain, as well as therapeutic purines and pyrimidines, nucleoside analogs and phosphorylated nucleoside analogs.

#### CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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L5
     ANSWER 5 OF 7 USPATFULL on STN
       2001:125975 USPATFULL
AN
ΤI
       Prodrug azide compositions and compounds
IN
       Chu, Chung K., Athens, GA, United States
       Kotra, Lakshimi, Detroit, MI, United States
       Manouilov, Kostantine K., Omaha, NE, United States
       Du, Jinfa, Irvine, CA, United States
Schinazi, Raymond, Decatur, GA, United States
PA
       University of Georgia Research Foundation Inc., Atlanta, GA, United
       States (U.S. corporation)
       Emory University, Atlanta, GA, United States (U.S. corporation)
       US 6271212
PI
                           В1
                                 20010807
ΑI
       US 1998-33996
                                 19980303 (9)
RLI
       Continuation of Ser. No. WO 1996-US14494, filed on 6 Sep 1996
PRAI
       US 1995-3383P
                            19950907 (60)
DT
       Utility
FS
       GRANTED
       Primary Examiner: Geist, Gary; Assistant Examiner: Crane, L Eric
EXNAM
       Coleman, Henry D., Sudol, R. Neil, Sapone, William J.
LREP
CLMN
       Number of Claims: 6
ECL
       Exemplary Claim: 1,6
DRWN
       12 Drawing Figure(s); 7 Drawing Page(s)
LN.CNT 1959
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AΒ
       Pharmaceutical prodrug compositions are provided comprising azide
       derivatives of drugs which are capable of being converted to the drug in
       vivo. Azide derivatives of drugs having amine, ketone and hydroxy
       substituents are converted in vivo to the corresponding drugs,
       increasing the half-life of the drugs. In addition azide prodrugs are
       often better able to penetrate the blood-brain barrier than the
       corresponding drugs. Especially useful are azide derivatives of cordycepin, 2'-F-ara-ddI, AraA, acyclovir, penciclovir and related
       drugs. Useful azide prodrugs are azide derivatives of therapeutic
       alicyclic amines, ketones, and hydroxy-substituted compounds, including
       aralkyl, heterocyclic aralkyl, and cyclic aliphatic compounds, where the
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### CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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ANSWER 6 OF 7 USPATFULL on STN
L5
       1999:22088 USPATFULL
ΑN
ΤI
       Treatment of urogenital cancer with boron neutron capture therapy
       Schinazi, Raymond F., Decatur, GA, United States
IN
       Keane, Thomas E., Dunwoody, GA, United States
       Liotta, Dennis C., Stone Mountain, GA, United States
PA
       Emory University, Atlanta, GA, United States (U.S. corporation)
PΙ
       US 5872107
                               19990216
       US 1997-792370
ΑI
                               19970203 (8)
       Continuation of Ser. No. US 1994-334759, filed on 4 Nov 1994, now
RLI
       patented, Pat. No. US 5599796 which is a continuation-in-part of Ser.
```

amine or oxygen moiety is on the ring, or where the amine or oxygen moiety is on an aliphatic side chain, as well as therapeutic purines and pyrimidines, nucleoside analogs and phosphorylated nucleoside analogs.

No. US 1993-161674, filed on 2 Dec 1993 DΤ Utility FS Granted EXNAM Primary Examiner: Wilson, James O. LREP Knowles, Sherry M., Haley, JacquelineKing & Spalding CLMN Number of Claims: 14 Exemplary Claim: 1 ECL DRWN 9 Drawing Figure(s); 7 Drawing Page(s) LN.CNT 2545 CAS INDEXING IS AVAILABLE FOR THIS PATENT. AB

Methods and compositions for treating urogenital tumors, and in particular, cancer of the prostate, bladder, and kidney, with BCNT, are disclosed. Any boron-containing compound that is sufficiently lipophilic to pass through the appropriate urogenital membranes in a quantity high enough to achieve therapy on irradiation with low-energy neutrons can be used. Carboranyl-containing nucleosides and oligonucleotides are particularly suited for use in BNCT of urogenital tumors. Preferred compounds include 5-carboranyl-2'-deoxyuridine (CDU) and 5-o-carboranyl-1-(2-deoxy-2-fluoro-β-D-arabinofuranosyl)uracil (CFAU). Nucleosides and oligonucleotides bearing an -O-[(carboran-1yl)alkyl]phosphate, S-[(carboran-1-yl)alkyl]phosphorothioate, or Se-[(carboran-1-yl)alkyl]phosphoroselenoate in place of the (carboran-1-yl)phosphonate moiety can be used. Oligonucleotides of specific gene sequences that include one or more 3',5'-linking-(carboran-1-y1)phosphonate moieties can also be used in antisense therapy in the selective modification of gene expression. Compounds can be used in urogenital BNCT therapy that contain boron clusters as a means to enhance lipophilicity wherein the boron is not enriched in .sup.10 B, but instead, in the .sup.11 B isotope. The therapy is accomplished by administering the boron-containing compound by any appropriate route, including by intravenous injection, oral delivery or by catheter or other direct means, in such a manner that the compound accumulates in the target tumor. After desired accumulation of the compound in the tumor, the site is irradiated with an effective amount of low energy neutrons.

## CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 - ANSWER 7 OF 7 USPATFULL on STN AN 97:10022 USPATFULL TΙ Treatment of urogenital cancer with boron neutron capture therapy IN Schinazi, Raymond F., Decatur, GA, United States Keane, Thomas E., Dunwoody, GA, United States Liotta, Dennis C., McDonough, GA, United States PA Emory University, Atlanta, GA, United States (U.S. corporation) US 5599796 PΙ 19970204 19941104 (8) AΙ US 1994-334759 RLI Continuation-in-part of Ser. No. US 1993-161674, filed on 2 Dec 1993 DΨ Utility FS Granted EXNAM Primary Examiner: Wilson, James O. LREP Kilpatrick & Cody, Knowles, Sherry M. CLMN Number of Claims: 21 ECL Exemplary Claim: 1,9 DRWN 9 Drawing Figure(s); 7 Drawing Page(s) LN.CNT 2519 CAS INDEXING IS AVAILABLE FOR THIS PATENT. AB

Methods and compositions for treating urogenital tumors, and particular, cancer of the prostate, bladder, and kidney, with BCNT, are disclosed. Any boron-containing compound that is sufficiently lipophilic to pass through the appropriate urogenital membranes in a quantity high enough to achieve therapy on irradiation with low-energy neutrons can be used. Carboranyl-containing nucleosides and oligonucleotides are particularly suited for use in BNCT of urogenital tumors. Preferred compounds include

5-carboranyl-2'-deoxyuridine (CDU) and 5-o-carboranyl-1-(2-deoxy-2fluoro- $\beta$ -D-arabinofuranosyl)uracil (CFAU). Nucleosides and oligonucleotides bearing an -O-[(carboran-1-yl)alkyl]phosphate, S-[(carboran-1-y1)alky1]phosphorothioate, or Se-[(carboran-1yl)alkyl]phosphoroselenoate in place of the (carboran-1-yl)phosphonate moiety can be used. Oligonucleotides of specific gene sequences that include one or more 3',5'-linking-(carboran-1-yl)phosphonate moieties can also be used in antisense therapy in the selective modification of gene expression. Compounds can be used in urogenital BNCT therapy that contain boron clusters as a means to enhance lipophilicity wherein the boron is not enriched in .sup.10 B, but instead, in the .sup.11 B isotope. The therapy is accomplished by administering the boron-containing compound by any appropriate route, including by intravenous injection, oral delivery or by catheter or other direct means, in such a manner that the compound accumulates in the target tumor. After desired accumulation of the compound in the tumor, the site is irradiated with an effective amount of low energy neutrons.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.